

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 April 2004 (29.04.2004)

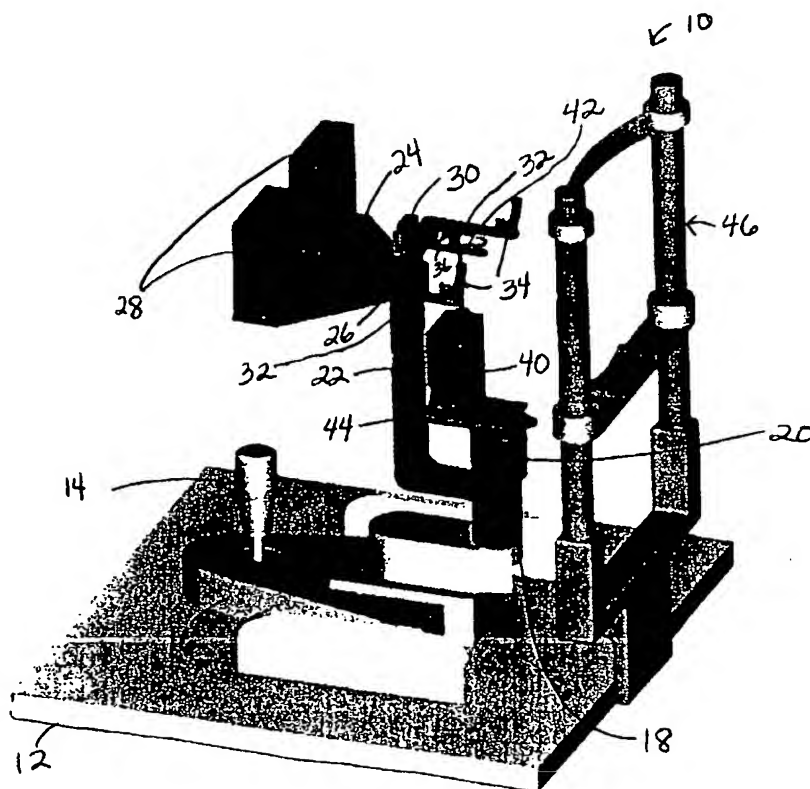
PCT

(10) International Publication Number  
**WO 2004/036268 A2**

- (51) International Patent Classification<sup>7</sup>: **G02B**
- (21) International Application Number: **PCT/US2003/033250**
- (22) International Filing Date: 20 October 2003 (20.10.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/419,442 18 October 2002 (18.10.2002) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US 60/419,442 (CON)  
Filed on 18 October 2002 (18.10.2002)
- (71) Applicant (for all designated States except US): **EYELAB GROUP, LLC** [US/US]; 2350 Washtenaw Avenue, Ann Arbor, MI 48104 (US).
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **COHAN, Bruce, E.** [US/US]; 1050 Wall Street #5A, Ann Arbor, MI 48105 (US). **PEARCH, Andrew, C.** [US/US]; 3493 Braeburn Circle, Ann Arbor, MI 48108 (US). **FLANDERS, Zvi** [US/US]; 6207 Blue Heron, Ann Arbor, MI 48108 (US). **GILLESPIE, Donald, E.** [US/US]; 4629 Platt Road, Ann Arbor, MI 48108 (US).
- (74) Agents: **MANSFIELD, Stephanie, M. et al.**; Brooks Kushman, 1000 Town Center, Twenty-Second Floor, Southfield, MI 48075 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR SELF-MEASUREMENT OF INTRAOCULAR PRESSURE



(57) Abstract: An apparatus and method for the self-measurement of intraocular pressure utilize a tonometer disposed within a housing and having a tonometer tip. The apparatus further includes an adjustment mechanism in communication with the tonometer for positioning the tonometer tip in contact with a test eye of the user, and an illuminator mounted within the housing adjacent the tonometer tip. A receiver is aligned with the tonometer tip for receiving an applanation pattern created by contact of the tonometer tip with the test eye, and a display is provided in communication with the receiver for displaying the applanation pattern to an observing eye of the user. The intraocular pressure of the test eye is determined from a force applied by the tonometer tip upon observation of a selected applanation pattern by the observing eye.

WO 2004/036268 A2